



according to Regulation (EC) No 1907/2006

1446449 Methanol

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

1446449 Methanol

CAS No: 67-56-1 Index No: 603-001-00-X EC No: 200-659-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Water analysis Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Company name: HACH LANGE GmbH
Street: Willstätterstr. 11
Place: D-40549 Düsseldorf
Telephone: +49 (0)211 5288-383
e-mail: SDS@hach.com
Internet: www.de.hach.com
Responsible Department: HACH LANGE Ltd.
5, Pacific Way

Salford Manchester M50 1DL - United Kingdom Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324

e-Mail: info-uk@hach.com

HACH LANGE Ltd.

Unit 1, Chestnut Road Western Industrial Estate

IRL-Dublin 12

Tel. +353 (0)1 4602522 e-Mail: info-ie@hach.com

1.4. Emergency telephone Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency

number: service -

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2 Acute toxicity: Acute Tox. 3 Acute toxicity: Acute Tox. 3 Acute toxicity: Acute Tox. 3

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 1
Specific target organ toxicity - repeated exposure: STOT RE 1

Hazard Statements:

Highly flammable liquid and vapour.

Toxic if inhaled.

Toxic in contact with skin. Toxic if swallowed. Causes skin irritation.

Causes serious eye irritation. Causes damage to organs.

Causes damage to organs through prolonged or repeated exposure.





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2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:







Hazard statements

H225 Highly flammable liquid and vapour.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H370 Causes damage to organs.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P370+P378 In case of fire: Use dry sand to extinguish.
P501 Dispose of contents/container to Disposal.

Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1. Substances





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Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulation (EC) No. 1272/2008 [CLP]				
67-56-1	methanol				
	200-659-6	603-001-00-X			
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, STOT SE 1, STOT RE 1; H225 H331 H311 H301 H315 H319 H370 H372				

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off all contaminated clothing immediately.

Show this safety data sheet to the doctor in attendance. Consult a physician.

After inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

After contact with skin

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After ingestion

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

Cannot be made non-poisonous. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. May be fatal or cause blindness if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist Alcohol-resistant foam Dry chemical Carbon dioxide (CO2)

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

H225 - Highly flammable liquid and vapour.

Fire may liberate hazardous vapours. Carbon oxides

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Additional information

Use water spray to cool unopened containers.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Use personal protective equipment.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4. Reference to other sections

Disposal: See also section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.

Avoid breathing vapours, mist or gas. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Advice on protection against fire and explosion

Combustible Liquid

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Further information on handling

Wash hands before breaks and immediately after handling the product. General hygiene considerations Observe label precautions.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on joint storage

Keep away from open flames, hot surfaces and sources of ignition.

Further information on storage conditions

Keep locked up or in an area accessible only to qualified or authorised persons.

7.3. Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL

Additional advice on limit values

None known.





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8.2. Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Handle in accordance with good industrial hygiene and safety practice.

Ensure that eyewash stations and safety showers are close to the workstation location.

Protective and hygiene measures

Wash hands before breaks and after work.

General industrial hygiene practice.

Take off contaminated clothing and shoes immediately.

Eye/face protection

Safety glasses with side-shields conforming to EN166

Hand protection

Use barrier skin cream. Chemical resistant protective gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Skin protection

Complete suit protecting against chemicals Flame retardant antistatic protective clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Remove and wash contaminated clothing before re-use.

Respiratory protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use respirator when performing operations involving potential exposure to vapour of the product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. Use NIOSH approved respiratory protection.

Environmental exposure controls

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: alcohol-like

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

Plash point:

11 °C

Sustaining combustion:

Sublimation point:

No data available

11 °C

Flammability

Solid: no data available
Gas: no data available

Explosive properties

no data available

Lower explosion limits: 6 vol. %



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Upper explosion limits: 37 vol. % Ignition temperature: 464 °C

Auto-ignition temperature

Solid: no data available
Gas: no data available
Decomposition temperature: no data available

Oxidizing properties

no data available

Vapour pressure: 130,3 hPa

(at 20 °C)

Vapour pressure: 546,6 hPa

(at 50 °C)

Density (at 20 °C): 0,79 g/cm³
Bulk density: not applicable
Water solubility: completely soluble

Solubility in other solvents

no data available

Partition coefficient: -0.77 Viscosity / dynamic: 0,597 mPa·s Viscosity / kinematic: no data available Flow time: no data available 1.11 Vapour density: Evaporation rate: no data available Solvent separation test: no data available Solvent content: no data available

9.2. Other information

Solid content: not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

no data available

10.2. Chemical stability

no data available

10.3. Possibility of hazardous reactions

no data available

10.4. Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

10.6. Hazardous decomposition products

no data available

Further information

Stable under recommended storage conditions.

SECTION 11: Toxicological information



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11.1. Information on toxicological effects

Acute toxicity

No data is available on the product itself.

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
67-56-1	methanol								
	oral	LD50 mg/kg	5628	rat					
	dermal	LD50 mg/kg	17100	rabbits					
	inhalation (4 h) vapour	LC50	10 mg/l	rat					
	inhalation aerosol	ATE	0,5 mg/l						

Irritation and corrosivity

May cause eye and skin irritation.

Sensitising effects

no data available

Carcinogenic/mutagenic/toxic effects for reproduction

H341 - Suspected of causing genetic defects.

H361 - Suspected of damaging fertility or the unborn child.

STOT-single exposure

H370 - Causes damage to organs.

STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

No aspiration toxicity classification

Specific effects in experiment on an animal

methanol:

LD50/dermal/rabbit = 15800 mg/kg

LD50/oral/rat = 5628 mg/kg

Practical experience

Observations relevant to classification

no data available

Other observations

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. May be fatal or cause blindness if swallowed. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Further information

no data available

SECTION 12: Ecological information

12.1. Toxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.



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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
67-56-1	methanol								
	Acute fish toxicity	LC50 mg/l	15400		Lepomis macrochirus (Bluegill sunfish)				
	Acute algae toxicity	ErC50 mg/l	22000		Pseudokirchneriella subcapitata (green algae)				
	Acute crustacea toxicity	EC50 mg/l	24500	48 h	Crustaceans				

12.2. Persistence and degradability

Biodegradability 99%, 30d

Ready biodegradability

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water

loa Pow: -0.77

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-56-1	methanol	-0,77

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6. Other adverse effects

Should not be released into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:UN 123014.2. UN proper shipping name:Methanol





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14.3. Transport hazard class(es): 3 (6.1) **14.4. Packing group:**

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not tested

Marine transport (IMDG)

14.1. UN number:UN 123014.2. UN proper shipping name:Methanol14.3. Transport hazard class(es):3 (6.1)14.4. Packing group:IIMarine pollutant:-EmS:F-E,S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:UN 123014.2. UN proper shipping name:Methanol14.3. Transport hazard class(es):3 (6.1)14.4. Packing group:II

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

no data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 69: methanol

Additional information

Classification according to EU Directives 67/548/EEC or 1999/45/EC

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

Revision: 12.07.2017

Safety datasheet sections which have been updated: 2

Revision: 6.01.2016





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Safety datasheet sections which have been updated: 2 - 16

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H311 Toxic in contact with skin. H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.